## INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/017917

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H05K3/34 (2006.01), H05K1/18 (2006.01), H01M2/10 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H05K3/34 (2006.01), H05K1/18 (2006.01), H01M2/10 (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996 Published unexamined utility model applications of Japan 1971-2005 Registered utility model specifications of Japan 1996-2006

Registered utility model specifications of Japan 1996-2005 Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Y	JP 2002-100412 A (MITSUMI 2002.04.05, par. Nos. [000 (Family: None)		1-24	
Y	JP 4-192596 A (HITACHI, LT page 6, lower right column, l left column, line 18, fig. US 5421081 A1 (1995.06.0	ine 19 - page 7, upper 13, fig. 14,	1-10, 17, 19-21	
Y	JP 10-56257 A (ROHM CO., L par. Nos. [0029] - [0031], & <u>US 6175086 B1 (2001 01 1</u> & EP 907308 A1 (1999.04.07 & WO 1997/046059 A1 (1997. & CN 1220077 A (1999.06.16	[0041], fig. 13, 6) ) 12.04)	4-24	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family				
Date of the actual completion of the international search  Date of mailing of the international search report				
	06.12.2005	20.12.2005		

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Р, Х	JP 2004-304019 A (MITSUMI ELECTRIC CO., LTD.) 2004.10.28, par. Nos. [0005] - [0008], [0020], [0025], [0026], fig. 3, fig. 4, (Family: None)	11-16, 18, 22-24		